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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: May 20, 2004 (use as many sheets as necessary)				Application Number	10/663,976
				Filing Date	09/17/2003
				First Named Inventor	Chad A. Mirkin, et al.
				Group Art Unit	1761 1762
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	083847-0201

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
AB	A1	MING SU et al., "Moving beyond Molecules: Patterning Solid-State Features via Dip-Pen Nanolithography with Sol-Based Inks," J. AM. CHEM. SOC., 31 January 2002, Vol. 124, No. 8, XP001176800, pgs. 1560-1561.	
	A2	XIAOGANG LIU et al., "Arrays of Magnetic Nanoparticles Patterned via "Dip-Pen" Nanolithography," ADVANCED MATERIALS, 5 February 2002, Vol. 14, No. 3, XP002266951, pgs. 231-234.	
	A3	International Search Report dated 17 September 2003.	

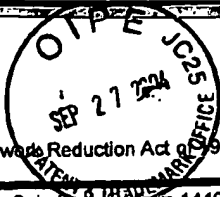
Examiner Signature	<i>AB</i>	Date Considered	1-23-05
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		Group Art Unit	1751 / 1762
Examiner Name	Unassigned		
Attorney Docket Number	083847-0201		
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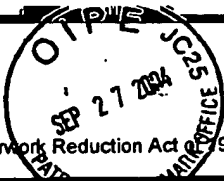
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	A1	SUN, et al., "Monodisperse FePt Nanoparticles and Ferromagnetic FePt Nanocrystal Superlattices," Science, 17 March 2000, pp. 1989-1992, Vol. 287.		
	A2	EDELSTEIN, et al., "The BARC Biosensor Applied to the Detection of Biological Warfare Agents," Biosensors & Bioelectronics, 2000, pp. 805-813, Vol. 14.		
	A3	XIA, et al., "Unconventional Methods for Fabricating and Patterning Nanostructures," Chemical Review, 1999, pp. 1823-1848, Vol. 99.		
	A4	FREEMAN, et al., "Advances in Magnetic Microscopy," Science, 16 November 2001, pp. 1484-1488, Vol. 294.		

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Date Submitted: September 27, 2004

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Sheet

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Of

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AB	A5	NEW, et al., "Submicron Patterning of Thin Cobalt Films for Magnetic Storage," Journal of Vacuum Science & Technology B, November/December 1994, pp. 3196-3201, Vol. 12, No. 6.	
	A6	O'GRADY, et al., "The Limits to Magnetic Recording - Media Considerations," Journal of Magnetism and Magnetic Materials 200, 1999, pp. 616-633.	
	A7	HYLTON, et al., "Preparation and Magnetic Properties of Epitaxial Barium Ferrite Thin Films on Sapphire with In-Plane, Uniaxial Anisotropy," Applied Physics Letters, 17 August 1992, pp. 867-869, Vol. 61, No. 7.	
	A8	PINER, et al., "Dip-Pen" Nanolithography, Science, 29 January 1999, pp. 661-663, Vol. 283.	
	A9	MAYNOR, et al., "Au "Ink" for AFM "Dip-Pen" Nanolithography," Langmuir, 2001, pp. 2575-2578, Vol. 17, No. 9.	
	A10	LI, et al., "Electrochemical AFM "Dip-Pen" Nanolithography," J. Am. Chem. Soc., 2001, pp. 2105-2106, Vol. 123.	
	A11	NOY, et al., "Fabrication of Luminescent Nanostructures and Polymer Nanowires Using Dip-Pen Nanolithography," Nano Letters, 2002, pp. 109-112, Vol. 2, No. 2.	
	A12	LIU, et al., "Arrays of Magnetic Nanoparticles Patterned via "Dip-Pen" Nanolithography," Advanced Materials, February 5, 2002, Vol. 14, No. 3.	
	A13	MCKENDRY, et al., "Creating Nanoscale Patterns of Dendrimers on Silicon Surfaces with Dip-Pen Nanolithography," Nano Letters, 2002, pp. 713-716, Vol. 2, No. 7.	
	A14	PORTER, et al., "Electroless Nanoparticle Film Deposition Compatible with Photolithography, Microcontact Printing, and Dip-Pen Nanolithography Patterning Technologies, Nano Letters, 2002, pp. 1369-1372, Vol. 2, No. 12.	

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Signature

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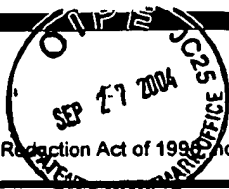
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		Filing Date	09/17/2003		
		First Named Inventor	Chad A. MIRKIN et al.		
		Group Art Unit	1751 1762		
		Examiner Name	Unassigned		
Sheet	3	Of	3	Attorney Docket Number	083847-0201

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
AB	A15	AGARWAL, et al., "Dip-Pen Nanolithography in Tapping Mode," J. Am. Chem. Soc., 2003, pp. 580-583, Vol. 125.	
	A16	YANG, et al., "Hierarchically Ordered Oxides," Science, 18 December 1998, pp. 2244-2246, Vol. 282.	
	A17	ZHONG, et al., "Key Step in Synthesis of Ultrafine BaFe ₁₂ O ₁₉ by Sol-Gel Technique," Journal of Magnetism and Magnetic Materials, 1997, pp. 196-202, Vol. 168.	
	A18	BRIGGS, et al., "Ion and Neutral Spectroscopy," Practical Surface Analysis," Second Edition.	
	A19	DUVAL, et al., "Evidence of the Existence of Three Types of Species at the Quartz-Aqueous Solution Interface at pH 0-10: XPS Surface Group Quantification and Surface Complexation Modeling," J. Phys. Chem. B, 2002, pp. 2937-2945, Vol. 106.	
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	A21	CHOU, et al., "Nanolithographically Defined Magnetic Structures and Quantum Magnetic Disk (Invited)," J. Appl. Phys., 15 April 1996, Vol. 79, No. 8.	
	A22	ISHIKAWA, et al., "Magnetic and Structural Properties of Ba-ferrite Films Prepared by Sol-Gel Processing," J. Appl. Phys., 1 May 1996, pp. 7080-7083, Vol. 79, No. 9.	

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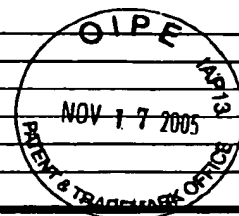
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			Filing Date	9/17/2003	
			First Named Inventor	Chad A. Mirkin	
			Group Art Unit	1762	
			Examiner Name	Alain Bashore	
			Attorney Docket Number	083847-0201	
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AP	C1	6,635,311		Mirkin	10-21-2003	
	C2	6,827,979		Mirkin	12-07-2004	
	C3	2003/0162004	A1	Mirkin	08-28-2003	

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APB	C4	AWSCHALOM, D. D., et al., "Electron spin and optical coherence in semiconductors," Phys. Today, vol. 52, pp. 33-38 (1999).			
	C5	BASELT, D. R., et al., "A biosensor based on magnetoresistance technology," Biosens Bioelectron, vol. 13, pp. 731-739 (1998).			
	C6	CHEMLA, Y. R., et al., "Ultrasensitive magnetic biosensor for homogeneous immunoassay," Proc. Natl. Acad. Sci., USA, vol. 97, pp. 14268-14272 (2000).			
	C7	DEMERS, L. M., et al., "Combinatorial Templates Generated by Dip-Pen Nanolithography for the Formation of Two-Dimensional Particle Arrays", Agnew Chem. Int. Ed., Engl., vol. 40, no. 16, pp. 3069-3071 (2001).			
	C8	DEMERS, L. M., et al., "Orthogonal Assembly of Nanoparticle Building Blocks on Dip-Pen Nanolithographically Generated Templates of DNA", Agnew Chem. Int. Ed., Engl., vol. 40, no. 16, pp. 3071-3073 (2001).			
	C9	DEMERS, L. M., et al., "Direct patterning of modified oligonucleotides on metals and insulators by dip-pen nanolithography", Science, vol. 296, pp. 1836-1838 (2002).			
	C10	FAN et al., "Rapid Prototyping of patterned functional nanostructures", Nature, vol. 405, pp. 56-60 (2000).			
	C11	HONG, et al., "Multiple Ink Nanolithography Toward a Multiple-Pen Nano-Plotter", Science, vol. 286, pp. 523-525 (1999).			

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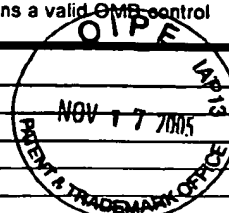
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			Examiner Name	Alain Bashore	
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	C13	HONG, et al., "A Nanoplotter with Both Parallel and Serial Writing Capabilities", Science, vol. 288, pp. 1808-1811 (2000).	
	C14	ICHINOSE, et al., "A Surface Sol-Gel Process of TiO ₂ and Other Metal Oxide Films with Molecular Precision", Chem. Mater., vol. 9, no. 6, pp. 1296-1298 (1997).	
	C15	IVANISEVIC, et al., "Dip-Pen' Nanolithography on Semiconductor Surfaces", J. Am. Chem. Soc., vol. 123, pp. 7887-7889 (2001).	
	C16	KONG, et al., "Synthesis of individual single-walled carbon nanotubes on patterned silicon wafers", Nature, vol. 395, pp. 878-881 (1998).	
	C17	LU et al., "Self-assembly of mesoscopically ordered chromatic polydiacetylene/silica nanocomposites", Nature, vol. 410, pp. 913-917 (2001).	
	C18	OHNO, H., et al., "Electric-field control of ferromagnetism", Nature, vol. 408, pp. 944-946 (2000).	
	C19	PRINZ, G. A., "Magnetoelectronics", Science, vol. 282, pp. 1660-1663 (1998).	
	C20	SORENSEN, C. M., "Magnetism", Nanoscale Materials in Chemistry (Wiley, New York, 2001), including Chptr. 6.	
	C21	WHITE, R. L., et al., "Patterned media : a viable route to 50 Gbit/in ² and up for magnetic recording", IEEE Trans. Mag., vol. 33, pp. 990-995 (1997).	
	C22	YANG, et al., "Mirrorless Lasing from Mesostructured Waveguides Patterned by Soft Lithography", Science, vol. 287, pp. 465-467 (2000).	

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